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hundred figures many of which are original. The excellent work of the Helgoland Station is evident on many of the pages of this comprehensive report.

The authoritative character of the papers in this series insures for them a wide range of usefulness and a permanent value to all naturalists who are concerned with the pelagic life of the sea.

C. A. K.

Notes on Pennsylvania Fishes. *Notropis cayuga* Meek.—Early in August of 1904 I secured a single example of this minnow in the Allegheny River, above Port Allegany, in McKean County. This is, I believe, the first record within our limits. Other fishes noted from this locality were *Lampetra wilderi*, *Salvelinus fontinalis*, *Campostoma anomalum*, *Semotilus atromaculatus*, *Leuciscus elongatus*, *Rhinichthys atronasus*, *Catostomus commersonnii*, *C. nigricans*, *Erimyzon sucetta oblongus*, *Schilbeodes insignis*, *Esox vermiculatus*, *Ambloplites rupestris*, *Eupomotis gibbosus*, *Micropterus dolomieu*, *Boleosoma nigrum*, and *Uranidea gracilis*. In the summer of 1899 I noted *Polyodon spathula*, *Campostoma anomalum*, *Leuciscus elongatus*, *Notropis hudsonius*, *N. whipplei*, *N. cornutus*, *Rhinichthys atronasus*, *Stizostedion vitreum*, and *Boleosoma nigrum* from streams near Cole Grove and other places along the Allegheny.

In the Susquehanna tributaries in Cameron County during October of 1905, I noted *Lampetra wilderi* (apparently this species though I did not see it myself), *Semotilus atromaculatus*, *Leuciscus vandoisulus*, *Brama crysoleucas*, *Notropis cornutus*, *Rhinichthys cataractæ*, *R. atronasus*, *Exoglossum maxillingua*, *Catostomus commersonnii*, *C. nigricans*, *Schilbeodes insignis*, and *Boleosoma nigrum olmstedii*. All these species occur near Emporium. *Notropis amoenus* occurs near Paradise, in Lancaster County, where I have received it from Mr. J. S. Witmer.

Mesogonistius chatodon (Baird).—The only place where I have found this sunfish in Pennsylvania has been in the basin of Mill Creek in Bucks County, near Bristol. It seems to occur sparingly, and most all of my examples were secured in the colder months. I have not found any previous definite records for Pennsylvania.

Boleichthys fusiformis (Girard).—I have only found this in the same locality as the former in our State. The first example was secured July 23, 1905, and on December 24 of the same year I found it very abundant. Though known from the lower tributaries of the Delaware in New Jersey, this fish has never before to my knowl-

edge been taken in Pennsylvania. The conditions where I secured my examples were similar to those found about Crosswicks Creek near Trenton, where the species is more or less abundant, though perhaps not so characteristic as in the lower lands. On the latter date *Anguilla chrisypa*, *Notropis chalybæus*, *Brama crysoleucas*, *Erimyzon sucetta oblongus*, *Esox americanus*, *Umbra pygmæa*, *Shilbeodes gyrinus*, *Aphredoderus sayanus*, *Enneacanthus gloriosus*, the above mentioned *Mesogonistius*, *Eupomotis gibbosus*, the above *Boleichthys*, *Aromochelys odoratus*, larval *Desmognathus*, *Cambarus*, larval dragon-flies, and hosts of Crustacea and shrimp, *Gammarus*, were also taken.

Enneacanthus obesus, contrary to Cope's statement that it is rare, is fairly abundant in southeastern Pennsylvania, though apparently local. I have received many living examples from the "Neck" in the lower part of Philadelphia.

HENRY W. FOWLER

Note on Muhlenberg's Turtle.—While spending a few days in late April with Mr. T. D. Keim in the region of Cedar Swamp Creek, Cape May Co., N. J., we observed a number of turtles about the fresh-water pools at the edge of the salt-marsh near Palermo. A single example of *Clemmys muhlenbergi* was found in this locality, a fact of some interest as the species does not seem to have been noted from southern New Jersey before. As an upland animal its distribution may be explained to some extent by the appearance of *Calopeltis obsoletus* at Stone Harbor, recorded by Mr. Witmer Stone in this journal for 1906, p. 166. In fact, most of the narrow strip on the Cape May County seacoast shows traces of upland life, the intervening cedar-stained streams presenting usually peculiar features. *Kinosternon pennsylvanicum*, *Chrysemys picta*, and *Clemmys guttatus* were abundant as noted in sequence. *Chelydra serpentina* and *Terrapene carolina* were also found, together with *Natrix sipedon*, *Thamnophis sauritus*, *Rana pipiens*, *Hyla pickeringii*, *Acris gryllus crepitans*, and *Bufo lentiginosus*.

HENRY W. FOWLER